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9
10 **UNITED STATES DISTRICT COURT**
 FOR THE DISTRICT OF NEVADA

11 AMARIN PHARMA, INC. *et al.*,

12 Plaintiffs,

13 v.

14 WEST-WARD PHARMACEUTICALS CORP.,
15 *et al.*,

16 Defendants.

Case No.: 2:16-cv-02525-MMD-NJK

(Consolidated with 2:16-cv-02562-MMD-
NJK, 2:16-cv-02658-MMD-NJK, and 2:17-cv-
02641-RFB-GWF)

**DEFENDANTS' RESPONSIVE CLAIM
CONSTRUCTION BRIEF**

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I. INTRODUCTION

Plaintiffs Amarin Pharma, Inc. and Amarin Pharmaceuticals Ireland Limited (collectively, “Amarin”) have asserted fourteen patents¹ against the Defendants² in this case. The patents all cover a method of lowering triglyceride levels in subjects’ blood by administering a pharmaceutical composition containing eicosapentaenoic acid (“EPA”). Thirteen of the patents³ have the same specification, while the fourteenth patent⁴ covers related subject matter. Despite their overlap, Amarin has asserted 224 claims against the Defendants. Because Amarin is asserting this large number of claims, the parties are forced to dispute the meaning of twenty claim terms.

Despite the sheer number of terms, Amarin’s claims all suffer from a fatal defect: they are each incredibly specific, drafted as they were in the context of a clinical trial. People had been using EPA—which is found in fish oil—to treat high triglycerides long before the patents-in-suit. To get around this prior art, during prosecution, Amarin relied on a clinical trial it had

¹ U.S. Patent Nos. 8,293,728 (“the ’728 patent”), 8,318,715 (“the ’715 patent”), 8,357,677 (“the ’677 patent”), 8,367,652 (“the ’652 patent”), 8,377,920 (“the ’920 patent”), 8,399,446 (“the ’446 patent”), 8,415,335 (“the ’335 patent”), 8,426,399 (“the ’399 patent”), 8,431,560 (“the ’560 patent”), 8,440,650 (“the ’650 patent”), 8,518,929 (“the ’929 patent”), 8,524,698 (“the ’698 patent”), 8,546,372 (“the ’372 patent”), and 8,617,594 (“the ’594 patent”) (collectively, “patents-in-suit”) (Plaintiffs’ Opening *Markman* Brief (“Amarin’s Br.”) at Exs. 4-16 [ECF Nos. 89-6 to 89-18]).

² Defendants are West-Ward Pharmaceuticals Corp., West-Ward Pharmaceuticals International Limited, Dr. Reddy’s Laboratories, Inc., Dr. Reddy’s Laboratories, Ltd., and Teva Pharmaceuticals USA, Inc.

³ The thirteen patents are all continuations of U.S. Patent No. 8,293,727 (“the ’727 patent”)—a patent listed in the Orange Book for Vascepa, but not asserted in this action—and the ’728 patent, the ’715 patent, the ’677 patent, the ’652 patent, the ’920 patent, the ’446 patent, the ’335 patent, the ’399 patent, the ’560 patent, the ’650 patent, the ’929 patent, the ’698 patent, and the ’372 patent (collectively, “the ’728 patent family”).

⁴ The fourteenth patent (*i.e.*, “the ’594 patent”) is a continuation of U.S. Patent No. 8,298,554 (“the ’554 patent”)—a patent listed in the Orange Book for Vascepa, but not asserted in this action.

1 performed, the MARINE trial, and drafted very specific claims reflecting the limitations of the
2 clinical trial. Now, however, in an attempt to accuse Defendants of infringing the patents,
3 Amarin seeks to expand the meaning of the claims to cover situations where a physician simply
4 prescribes medication to a patient. The Court should decline Amarin's attempt to broaden its
5 claims and instead construe the terms in accordance with their plain meaning and the patents'
6 specification.

7 **II. BACKGROUND**

8 Triglycerides and cholesterol are the main lipids or fats found in the circulating blood.
9 (Wharton Decl. ¶25.) Triglycerides and cholesterol are packaged in spherical particles called
10 lipoproteins, which contain both lipids and proteins called apolipoproteins. (*Id.*) Higher levels of
11 triglycerides and bad cholesterol, as well as their corresponding lipoproteins (for example, LDL)
12 and apolipoproteins, are strongly associated with cardiovascular events, including heart attacks.
13 (*Id.* ¶27.) Hyperlipidemia is the medical term for several disorders of lipid metabolism
14 characterized by high levels of triglycerides or cholesterol. (*Id.* ¶30.) Typically doctors treat high
15 levels of triglycerides with lifestyle changes such as diet, exercise, and medication. (*Id.*)

16 In the 1970s and 1980s, clinical researchers concluded that consuming the omega-3 fatty
17 acids found in fish oils resulted in improved plasma lipid levels in humans. (*Id.* ¶¶31-34.)
18 Practitioners identified omega-3 fatty acids, EPA and docosahexaenoic acid ("DHA"), as the
19 primary active agents in fish oil. (*Id.*) By the early 1990s, it was well-understood that
20 administering fish oil would lower blood triglyceride levels or elevate "good cholesterol," for
21 example, HDL. (*Id.*)

22 The ethyl ester derivative of EPA—also known as ethyl eicosapentaenoate, icosapent
23 ethyl, ethyl-EPA, or EPA-E—has been commercially marketed since the early 1990s. (*Id.* ¶32.)
24 For example, since 1990, Epanel, a highly purified formulation of EPA-E, has been marketed by

1 Mochida Pharmaceutical Co., Ltd., in Japan to improve abnormal triglyceride levels. (*Id.*) In
2 2004 in the United States, the FDA approved the prescription fish oil supplement known as
3 Lovaza (formerly known as Omacor) to treat high triglyceride levels. (*Id.* ¶¶32-33.) Lovaza
4 includes both EPA-E and DHA-E (the ethyl ester of DHA) and is indicated as an adjunct to diet
5 to reduce triglyceride levels in adult patients with triglyceride levels ≥ 500 mg/dl. (*Id.* ¶¶32-33.)
6 However, treatment with Lovaza was known to cause an undesired increase in “bad” LDL
7 cholesterol (“LDL-C”). (*Id.* ¶33.) It was also known that DHA-E, and not EPA-E, was
8 responsible for this undesired effect. (*Id.*)

9 Since the 1990s, numerous clinical studies conducted on these commercially-available
10 formulations (Epadel and Lovaza) have established the clinical benefits of the administration of a
11 purified formulation containing EPA or its derivatives, namely that EPA-E could reduce
12 triglycerides levels in patients without increasing the levels of undesirable blood lipids, such as
13 LDL-C. (*Id.* ¶34.)

14 Between 2009 and 2010, Amarin conducted a clinical trial, known as the MARINE trial.
15 (*Id.* ¶35.) The purpose of the MARINE trial was to confirm what was already known in the art—
16 that a pure EPA-E formulation, such as Amarin’s formulation, AMR101, lowered fasting
17 triglyceride levels in subjects with fasting triglyceride levels ≥ 500 mg/dl without increasing the
18 level of bad cholesterol like LDL-C. (*Id.*) Amarin used data from the MARINE trial to support
19 FDA approval of AMR101, eventually known as Vascepa, as well as dozens of applications
20 before the U.S. Patent and Trademark Office. (*Id.*) Amarin received approval for Vascepa in
21 2012 and has marketed its formulation since January 2013. (*Id.*)
22
23
24

1 **III. THE PATENTS-IN-SUIT**

2 Amarin seeks to enforce 224 overlapping claims from fourteen patents against the
 3 Defendants. These patents are listed in the FDA’s Orange Book in connection with Vascepa.
 4 Thirteen of the fourteen asserted patents are entitled “Methods of Treating
 5 Hypertriglyceridemia.” These patents share identical specifications and claim a method of
 6 treating subjects with high triglyceride levels with purified EPA-E, where the measured effects
 7 on the subject are compared to the effects on another subject or group.⁵ The fourteenth patent,
 8 U.S. Patent No. 8,617,594 (“the ’594 patent”), is not a member of this family. It is entitled
 9 “Stable Pharmaceutical Composition and Methods of Using Same,” and has a different
 10 specification from the ’728 patent family. The ’594 patent claims methods of treating one or
 11 more subjects in a group of subjects with high triglyceride levels with a pharmaceutical
 12 composition containing ultra-pure EPA.

13 During prosecution of the ’728 patent family, the patent Examiner concluded that the
 14 claimed methods were obvious. (Amarin’s Br. at Ex.⁶ 19 [ECF No. 89-27], ’728 Patent File
 15 History (“PFH”), 4/4/12 Non-Final Office Action at AMRN00212288-99.) Before the Examiner
 16 was prior art that taught that administration of pure EPA-E capsules, which also contain
 17 substantially no DHA, decreased triglyceride levels in patients. (*Id.*) There was also art that
 18 taught that the administration of EPA-E/DHA-E mixtures (*i.e.*, Lovaza) lowered triglyceride
 19 levels in patients with triglyceride levels \geq 500 mg/dl. (*Id.*) Based on these prior art teachings,

21 ⁵ For convenience, Defendants will cite here to the ’728 patent specification and prosecution
 22 history, except where otherwise indicated, to refer to the common specification of all patents but
 the ’594 patent.

23 ⁶ Exhibits attached to the declaration of Dr. Michael Miller and the declaration of Megan Keane
 24 are referred to as Amarin’s Brief Exhibits (“Amarin’s Br. at Ex.”).

1 the Examiner concluded that it would be obvious to treat patients having triglycerides levels
 2 ≥ 500 mg/dl with a pharmaceutical composition comprising at least about 96% pure EPA-E. (*Id.*)

3 To overcome the Examiner's finding of obviousness, Amarin attempted to distinguish the
 4 prior art by filing a response that included declarations by clinicians and a biostatistician that
 5 described the results of Amarin's MARINE clinical trial. (Amarin's Br. at Ex. 19, '728 PFH,
 6 6/27/12 Applicant Response (AMRN00212303-29); Amarin's Br. at Ex. 19, '728 PFH, 6/26/12
 7 Bays Decl. ("Bays Declaration IV") (AMRN00212350-9); Ex. 8, '728 PFH, 5/18/11 Bays Decl.
 8 ("Bays Declaration I") (AMRN00212330-32), 12/16/11 Lavin Decl. ("Lavin Declaration I")
 9 (AMRN00212366, AMRN00212370-72), 5/10/12 Lavin Decl. ("Lavin Declaration II")
 10 (AMRN00212439-43), 5/26/11 Weintraub Decl. ("Weintraub Declaration I") (AMRN00212367-
 11 69), and 9/19/11 Weintraub Decl. ("Weintraub Declaration II") (AMRN00212460-68).⁷ The
 12 declarations described Amarin's MARINE trial, in which capsules with 4 g of EPA-E (AMR101)
 13 were administered for 12 weeks to two groups of hypertriglyceridemic patients: patients who
 14 were receiving a concomitant lipid altering medication (first group) and patients who were not
 15 receiving a concomitant lipid altering medication (second group). (Amarin's Br. at Ex. 19, '728
 16 PFH, 6/26/12 Bays Decl. (AMRN00212350-59); Ex. 8, '728 PFH, 5/18/11 Bays Decl.
 17 (AMRN00212330-32), 5/26/11 Weintraub Decl. (AMRN00212367-69), and 9/19/11 Weintraub
 18 Decl. (AMRN00212460-68) submitted with 6/27/12 Applicant Response.) The effect of EPA-E
 19 on the triglyceride, cholesterol (*e.g.*, LDL-C and HDL-C), and apolipoprotein B levels of these
 20 patient groups was compared with subjects receiving placebo capsules. (*Id.*)

21
 22
 23 ⁷ Except for the June 26, 2012 Declaration of Dr. Bays, which was drafted for the '728 patent's
 24 application, each of the declarations was first submitted during prosecution of the '727 patent.

1 Based on the declarations, Amarin argued that the MARINE trial showed that the patients
2 with triglyceride levels ≥ 500 mg/dl who received EPA-E had an unexpected reduction in their
3 apolipoprotein B levels and no change in their LDL-C levels, as compared to Lovaza. (*Id.*)
4 Amarin argued through the declarations that its EPA-E composition fulfilled a long-felt,
5 unresolved need for a treatment that lowered triglyceride levels in patients with triglyceride
6 levels ≥ 500 mg/dl, without an increase in LDL-C. (*Id.*) Even though it was widely known that it
7 was DHA that increased LDL-C and that this effect could be avoided by eliminating DHA from
8 an EPA formulation (for example, Epadel) and the Examiner found that “it will be obvious to
9 treat patients having TG above 500 mg/dl with 96% pure ethyl-EPA,” the Examiner nevertheless
10 allowed the claims to issue based on Amarin’s unexpected results and long-felt, unmet need
11 arguments. (Amarin’s Br. at Ex. 19, ’728 PH, 9/6/12 Notice of Allowance at AMRN00212745.)

12 During prosecution of the ’594 patent, Amarin presented arguments similar to those
13 presented during prosecution of the ’728 patent, including the unexpected results and long-felt,
14 unmet need arguments. (Ex. 9, ’594 PFH, 8/5/13 Applicant Response (AMRN00289323-36).)
15 Again, despite the existing knowledge that pure EPA formulations would not increase LDL-C
16 levels, the Examiner allowed the claims. (Ex. 9, ’594 PFH, 9/17/13 Notice of Allowance at
17 AMRN00289713, AMRN00289715.)

18 **IV. THE LEGAL STANDARDS REGARDING CLAIM INTERPRETATION**

19 Claim construction is “of primary importance, in the effort to ascertain precisely what it
20 is that is patented” because “it is ‘unjust to the public, as well as an evasion of the law, to
21 construe it in a manner different from the plain import of its terms.’” *Phillips v. AWH Corp.*, 415
22 F.3d 1303, 1312 (Fed. Cir. 2005) (en banc). Claim construction is the process of determining the
23 scope and meaning of disputed claim terms and is a matter of law exclusively for the Court. *See*
24 *Markman v. Westview Instruments, Inc.* (“*Markman I*”), 517 U.S. 370, 372 (1996).

1 Claim terms “are generally given their ordinary and customary meaning,” which is “the
2 meaning that the term would have to a person of ordinary skill in the art in question at the time of
3 the invention.”⁸ *Phillips*, 415 F.3d at 1312-13. There are only two exceptions to this general rule:
4 1) when a patentee acts as its own lexicographer and redefines a term, and 2) when the patentee
5 disavows the full scope of a claim term either in the specification or during prosecution. *See*
6 *Thorner v. Sony Computer Entm’t Am. LLC*, 669 F.3d 1362, 1365 (Fed. Cir. 2012).

7 In interpreting a claim, one looks first to the intrinsic evidence of record, *i.e.*, the patent
8 itself, including the claims, the specification and, if in evidence, the prosecution history. *See*
9 *Markman v. Westview Instruments, Inc.* (“*Markman II*”), 52 F.3d 967 (Fed. Cir. 1995), *aff’d*,
10 *Markman I*, 517 U.S. 370 (1996); *Vitronics Corp. v. Conceptronic, Inc.*, 90 F.3d 1576, 1582
11 (Fed. Cir. 1996). “[I]ntrinsic evidence is the most significant source of the legally operative
12 meaning of disputed claim language.” *Vitronics*, 90 F.3d at 1582; *see also Phillips*, 415 F.3d at
13 1317. “[T]he person of ordinary skill in the art is deemed to read the claim term not only in the
14 context of the particular claim in which the disputed term appears, but in the context of the entire
15 patent, including the specification.” *Phillips*, 415 F.3d at 1313. As the single best guide to the
16 meaning of a disputed term, usually the specification is dispositive. *See id.* at 1315.

17 In construing claims, a court should first “look to the language of the claims to determine
18 what the applicant regards as his invention.” *Phillips*, 415 F.3d at 1312 (internal quotations
19 omitted). Terms that appear in more than one claim should be construed consistently throughout
20 the patent. *Id.* at 1314. Moreover, claims and their terms are ordinarily interpreted consistently
21 across patents having the same specification. *See In re Katz Interactive Call Processing Patent*
22 *Litig.*, 639 F.3d 1303, 1325 (Fed. Cir. 2011) *citing NTP, Inc. v. Research in Motion, Ltd.*, 418

23 ⁸ Referred to in this brief by the acronym “POSA.”
24

1 F.3d 1282, 1293 (Fed. Cir. 2005) (“Because NTP’s patents all derive from the same patent
2 application and share many common terms, we must interpret the claims consistently across all
3 asserted patents.”).

4 Further, “[t]he prosecution history gives insight into what the applicant originally claimed
5 as the invention, and often what the applicant gave up in order to meet the Examiner’s
6 objections.” *Elkay Mfg. Co. v. Ebco Mfg. Co.*, 192 F.3d 973, 978 (Fed. Cir. 1999). The Federal
7 Circuit has noted that “[p]rosecution history is an important source of intrinsic evidence in
8 interpreting claims because it is a contemporaneous exchange between the applicant and the
9 examiner.” *Desper Prods., Inc. v. QSound Labs, Inc.*, 157 F.3d 1325, 1336-37 (Fed. Cir. 1998).
10 “Arguments and amendments made during the prosecution of a patent application and other
11 aspects of the prosecution history, as well as the specification and other claims, must be
12 examined to determine the meaning of terms in the claims.” *Southwall Techs., Inc. v. Cardinal*
13 *IG Co.*, 54 F.3d 1570, 1576 (Fed. Cir. 1995). A “patentee may not proffer an interpretation for
14 the purposes of litigation that would alter the indisputable public record consisting of the claims,
15 the specification and the prosecution history, and treat the claims as a ‘nose of wax.’” *Id.* at 1578
16 (internal citation omitted). “To act as its own lexicographer, a patentee must clearly set forth a
17 definition of the disputed claim term other than its plain and ordinary meaning.” *Thorner*, 669
18 F.3d at 1365 (internal quotation marks and citation omitted). The patentee must clearly express
19 its intent to redefine the claim term—*i.e.*, the lexicography must be deliberate. *Id.*; *see also*
20 *Abbott Labs. v. Syntron Bioresearch, Inc.*, 334 F.3d 1343, 1354 (Fed. Cir. 2003). Accordingly,
21 when a general term appears in the claims, a more particularized meaning should not be
22 prescribed unless that narrower construction is required by the specification or the prosecution
23 history. *3M Innovative Props. Co. v. Tredegar Corp.*, 725 F.3d 1315, 1329 (Fed. Cir. 2013).

Moreover, in every instance, extrinsic evidence must be considered “in the context of the intrinsic evidence,” and can never be used to “contradict any definition found in or ascertained by a reading of the patent documents.” *Phillips*, 415 F.3d at 1319, 1322-23 (internal citation omitted). A court may look to extrinsic evidence to support a claim construction based on the intrinsic evidence, to understand the technology at issue, or to show that a term in the patent has a particular meaning in the relevant field. *See Phillips*, 415 F.3d at 1318; *Teva Pharms. USA, Inc. v. Sandoz, Inc.*, 135 S.Ct. 831, 841 (2015).

“A patent must be precise enough to afford clear notice of what is claimed, thereby ‘appris[ing] the public of what is still open to them.’” *Nautilus, Inc. v. Biosig Instruments, Inc.*, 134 S.Ct. 2120, 2129 (2014) (quoting *Markman I*, 517 U.S. at 373)). The test is whether “a patent’s claims, viewed in light of the specification and prosecution history, inform those skilled in the art about the scope of the invention with reasonable certainty.” *Nautilus*, 134 S.Ct. at 2129. But the objective of ensuring claims meet “[t]he statutory requirement of particularity and distinctness,” remains one of ensuring the claims “clearly distinguish what is claimed from what went before in the art and clearly circumscribe what is foreclosed from future enterprise.” *Id.* at 2129 n.6.

V. DISPUTED CLAIM TERMS

During the prosecution of its patents, Amarin made several statements in support of its applications in an attempt to distinguish the considerable amount of prior art available at that time—statements that it now seeks to qualify or minimize to avoid meeting its burden of proof on infringement. Amarin also seeks to escape the other fatal flaw in its claims—that they are written in the context of a clinical study trial. On the other hand, Defendants’ constructions stay true to the plain and ordinary meaning of the claims of the patents and seek to hold Amarin to the bargain it struck with the USPTO in obtaining allowance of each of the patents-in-suit.

A. “Concurrent/concomitant lipid altering therapy”

Defendants’ Proposed Construction	Amarin’s Proposed Construction
any treatment that can cause an alteration in lipid levels whereby such treatment takes place concurrently/concomitantly with the administration of a pharmaceutical composition comprising ethyl eicosapentaenoate	a medication to alter lipid levels in a subject whereby the medication is administered concurrently/concomitantly with the administration of a pharmaceutical composition comprising ethyl eicosapentaenoate
Exemplary claim language (’728 patent, claim 1)	
1. A method of reducing triglycerides in a subject having a fasting baseline triglyceride level of 500 mg/dl to about 1500 mg/dl who does not receive <i>concurrent lipid altering therapy</i> ...	

The parties’ constructions of the term “lipid altering therapy” are similar except with respect to one issue—whether the term is given its proper scope to include all treatments that could alter lipid levels, or whether the term is improperly limited to only medication. Contrary to what Amarin argues, for a number of reasons, the intrinsic and extrinsic evidence does not limit the claimed phrase “lipid altering therapy” only to treatment with medication.

First, as Defendants’ expert, Dr. Wharton, explains a POSA would have understood that the plain and ordinary meaning of “lipid altering therapy” includes more than medication. (Wharton Decl. ¶41.) Clinicians routinely prescribe non-medicinal therapy, such as exercise or a change in diet, to patients with elevated triglyceride blood levels to bring down their lipid levels. (*Id.*) Indeed, a POSA usually advises the patient to try both exercise and a change in diet as a first-line therapy to lower their high lipid levels. (*Id.*) If a patient’s lipid levels are not lowered with exercise and a change in diet, a POSA may then prescribe medications to be taken alone or concurrently with the lifestyle changes. (*Id.*)

Dr. Wharton’s understanding is consistent with the claim language, which recites methods of reducing triglycerides in patients with a certain high, “fasting baseline triglyceride

1 level.” (Amarin’s Br. at Ex. 4, ’728 patent, claim 1.) A POSA would have understood “baseline”
2 lipid levels to mean an untreated baseline—a lipid level unaffected by any therapy or other
3 factor. (Wharton Decl. ¶46.) In the context of the claims, a POSA would have understood the
4 term “concurrent [concomitant] lipid altering therapy” to include any therapy that “alters”
5 baseline lipid levels. (*Id.*) And because a POSA would prescribe medications as well as changes
6 in one’s lifestyle, such as diet and exercise, in order to alter a patient’s lipid levels, a POSA
7 would have understood that all such factors, including and beyond medication, are lipid altering
8 therapies. (*Id.* ¶47)

9 **Second**, contrary to Amarin’s assertion, the specifications of the patents-in-suit do not
10 limit “therapy” to medication. (*Id.* ¶42.) In fact, the specification uses different words to describe
11 lipid altering *medication* and the broader “lipid altering *therapy*.” (*Id.* ¶43; *compare, e.g.,*
12 Amarin’s Br. at Ex. 4, ’728 patent at 13:56-60 with 13:66-14:5). Further, the specification
13 confirms that diet and exercise are *therapeutic* for patients with elevated triglyceride levels.
14 (Wharton Decl. ¶¶42, 45.) For instance, in the specification’s prophetic example, patients were
15 required to undergo a “diet and lifestyle stabilization period,” implying that diet and lifestyle
16 changes are factors that alter lipid levels in patients. (*See, e.g.,* Amarin’s Br. at Ex. 4, ’728 patent
17 at 14:19-32; Wharton Decl. ¶42.) In that same prophetic example, the specification refers to
18 lifestyle changes as “therapeutic,” requiring all patients be counseled “regarding the importance
19 of the National Cholesterol Education Program (NCEP) *Therapeutic* Lifestyle Changes (TLC)
20 diet.” (*See, e.g.,* Amarin’s Br. at Ex. 4, ’728 patent at 14:32-41 (emphasis added); Wharton Decl.
21 ¶42.)
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23
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Moreover, Amarin's piecemeal recitation of the '728 patent at 12:43-46 as supporting its overly narrow construction takes the statement out of context. (Amarin's Br. [ECF No. 89] at 10.) The full statement reads:

In *one embodiment*, a subject being treated in accordance with methods of the invention is not otherwise on lipid-altering therapy, *for example* statin, fibrate, niacin and/or ezetimibe therapy.

(Amarin's Br. at Ex. 4, '728 patent at 12:43-46 (emphasis added); Wharton Decl. ¶¶44-45.) For one, this statement explicitly refers only to a single embodiment ("In one embodiment") and limiting the claims to a single preferred embodiment constitutes an improper reading of a limitation from the specification into the claims. *Superguide Corp. v. DirecTV Enters., Inc.*, 358 F.3d 870, 875 (Fed. Cir. 2004) (a particular embodiment appearing in the written description may not be read into a claim when the claim language is broader than the embodiment). Additionally, the phrase "lipid-altering therapy" as used in the statement in question does not limit "therapy" just to drugs. Instead, it merely gives examples (as emphasized above) of drugs that could constitute lipid altering therapy. Nothing in this section (or any section) of the specification defines "lipid altering therapy" as limited to drug therapy or as excluding non-drug therapy.

Third, during the prosecution of the patents-in-suit, the applicants' own expert declarant specifically defined dietary modification and exercise as "lipid altering therapy" along with medication. (Wharton Decl. ¶48.) The applicants' declarant Dr. Howard Weintraub, a cardiologist with over 30 years' experience, stated to the Examiner that "[i]n patients with very high triglycerides, the initial aim of therapy is to prevent acute pancreatitis through triglyceride lowering. This typically requires dietary modification, weight reduction, increased exercise and a triglyceride lowering medication." (Ex. 8, '728 PFH, 5/26/11 Weintraub Decl. ¶7

1 (AMRN00212368); *see also* Amarin’s Br. at Ex. 19, ’728 PFH, 6/27/12 Applicant Response at
2 AMRN00212322.) Thus, the prosecution history of the patents also supports Defendants’
3 construction.

4 Amarin’s other citations to the prosecution histories do not support its construction.
5 (Amarin’s Br. at 11-12.) The Examiner’s description of twenty-four individuals taking anti-
6 hyperlipidemic drugs from a specific prior art reference as patients who were on “concomitant
7 lipid-altering therapy” is consistent with Defendants’ construction that does not exclude
8 medications from “lipid altering therapy.” (Wharton Decl. ¶49.) Moreover, Katayama, the prior
9 art reference in question, expressly identifies in Table 4 (*see* Amarin’s Br. at 12) that therapies
10 can take a non-drug form (*i.e.*, dietary, exercise, and combination). (Wharton Decl. ¶49;
11 Amarin’s Br. at Ex. 19, ’728 PFH, Katayama at AMRN00209162.) Katayama further identifies
12 concomitant drugs as *drugs*, not therapies. (Wharton Decl. ¶49.) Indeed, the reference itself
13 states that “dietary and/or exercise *therapy* for hyperlipidemia were conducted as appropriate”
14 during the treatment period for diagnosed patients. (*Id.*; Miller Decl. ¶59; Amarin’s Br. at Ex.
15 19, ’728 PFH, Katayama at AMRN00209158 (emphasis added).)

16 **Fourth**, extrinsic evidence supports Defendants’ construction of these terms. For
17 example, the National Cholesterol Education Program (NCEP) Therapeutic Lifestyle Changes
18 (TLC) that the specification references, (*see* Amarin’s Br. at Ex. 4, ’728 patent at 14:31-41),
19 counsels “[t]reatment for high LDL cholesterol involved the TLC program and, if needed, drug
20 therapy.” (Wharton Decl. ¶50; Ex. 7, NCEP TLC at ICOSAPENT_DFNDTS00015354.) Such
21 extrinsic evidence supports Defendants’ argument that treatment for high lipid levels, *i.e.* lipid
22 altering therapy, is not limited to drug products, but rather includes treatment with non-drug
23 therapies—that is, diet, physical activity, and weight management. (Wharton Decl. ¶50; *see also*
24

Ex. 7 at ICOSAPENT_DFNDTS00015345-46 and ICOSAPENT_DFNDTS00015354; *see also*, *e.g.*, *id.* at ICOSAPENT_DFNDTS00015360 (“[W]hat you eat greatly affects your blood cholesterol levels . . .”); ICOSAPENT_DFNDTS00015378 (“Lack of physical activity is a major risk factor for heart disease . . . Regular physical activity can help you manage your weight and, in that way, help lower your LDL. It also can help raise HDL and lower triglycerides . . .”); ICOSAPENT_DFNDTS00015384 (“Losing your extra weight reduces these risks and improves your cholesterol and triglyceride levels.”).)

The extrinsic evidence that Amarin cites, (*see* Amarin’s Br. at 28-29), amounts to documents not referenced in the specification (unlike Defendants’ reliance on the NCEP-TLC document) and statements that are contrary to the intrinsic evidence. As such, Amarin’s extrinsic evidence, consisting of references to other drug labels and cherry-picked medical literature, is entitled to little or no weight and cannot change the definition made clear in the intrinsic evidence. *Phillips*, 415 F.3d at 1319, 1322-23; Wharton Decl. ¶51.

Amarin should not be permitted to use the claim construction proceedings to rewrite its claims to further its litigation strategy. If the applicants had intended to limit “lipid altering therapy” only to medication, they would have consistently used “lipid altering *medication*” throughout, instead of the broader phrase “lipid altering *therapy*,” but it did not.

B. “[Orally] administering/administered”

Defendants’ Proposed Construction	Amarin’s Proposed Construction
delivering/delivered into the body [or mouth]	No construction necessary Plain and Ordinary Meaning
Exemplary claim language (’728 patent, claim 1)	

1 1. A method of reducing triglycerides in a subject having a fasting baseline triglyceride
 2 level of 500 mg/dl to about 1500 mg/dl who does not receive concurrent lipid altering therapy
 3 comprising: *administering orally* to the subject about 4 g per day of a pharmaceutical
 composition...

4 Defendants' construction of this term is consistent with the plain and ordinary meaning of
 5 "[orally] administering" and "[orally] administered" and defines it as the delivery of the
 6 medication in question into the body, such as by the mouth. In contrast, Amarin argues that these
 7 terms do not require any construction, stating that "[orally] administering/administered" should
 8 be construed to have its plain and ordinary meaning. Having said that, Amarin then proceeds to
 9 expand the construction of "administering" to include "prescribing," "instructing," and
 10 "treating." By doing so, Amarin seeks to avoid meeting its burden of proof that the Defendants,
 11 who are pharmaceutical companies that do not treat patients, meet this claim limitation.
 12 Regardless, and contrary to what Amarin argues, based on the context of the word in the claim
 13 and when read in light of the specification, a POSA would not broaden the definition of
 14 "administering" to the clinicians' "treatment, instruction, or prescribing" actions. A POSA would
 15 understand that those actions are distinct from "administering" and would stand on their own.

16 The intrinsic evidence supports Defendants' construction. The claims are directed to a
 17 method of reducing triglycerides and changes to other lipid levels in a subject. There would be
 18 no decrease in triglyceride levels or changes to other lipid levels if the subject did not take the
 19 medication, *i.e.*, the medication was not delivered into the body.

20 The specification supports this reading of the claim, disclosing, for example, that

21 compositions useful in accordance with methods of the invention are orally
 22 deliverable. The terms "orally deliverable" and "oral administration" herein
 23 include *any form of delivery* of a therapeutic agent or a composition thereof to a
 24 subject *wherein the agent or composition is placed in the mouth of the subject*,
 whether or not the agent or composition is swallowed. Thus "oral administration"
 includes buccal and sublingual as well as esophageal administration.

1 (Amarin’s Br. at Ex. 4, ’728 patent at 12:47-56) (emphasis added). The specification states that
2 “administration” means “delivery” into the body; and that for “oral administration” even if not
3 swallowed, the agent still enters the body by absorption through the buccal (cheek), under the
4 tongue or throat linings.

5 Amarin attempts to deceive the Court by truncating the above citation in footnote 12 of
6 its brief, failing to include the final sentence of the paragraph—to assert that delivery into the
7 body is not required and administration can be merely “prescribing” or “instructing.” (*See*
8 Amarin’s Br. at 15 n.12.) Ending the excerpt with the phrase “whether or not the agent is
9 swallowed” improperly distorts the definition, because the very next sentence that Amarin does
10 not cite in its brief makes clear that even when not swallowed, the agent enters the body through
11 other ways. Contrary to Amarin’s proposed definition, the specification is clear in its definition
12 that in all described instances, the drug enters the body. Such a reading makes sense as a
13 requirement to obtain and measure the claimed effect.

14 The specification also uses the words “treatment,” “treating,” and “being treated,”
15 distinctly (*see, e.g.,* Amarin’s Br. at Ex. 4, ’728 patent at 8:28-42): if the applicants had intended
16 “administering” to encompass “treating,” they would not have differentiated between the two in
17 the specification.

18 There is ample case law that supports Defendants’ construction. In *Takeda Pharm. Co.*
19 *Ltd., et al. v. Actavis Labs. FL, Inc.*, the Court construed “administering” to mean “delivering
20 into the body,” further explaining “[b]eing proceeded by the modifier ‘orally’ highlights the fact
21 that administering, as used in claim 11 of the ’195 patent, refers to the physical means of
22 delivering the medication into the patient’s body.” C.A. No. 15-cv-451, 2016 WL 3193188, at
23 *2-3 (D. Del. Jun. 6, 2016). The Court in *Pernix Ireland Pain Ltd v. Actavis Labs. FL, Inc.*,

1 similarly construed “administering” to mean “delivering into the body.” C.A. No. 16-138
2 (GMS), 2017 WL 3314005, at *1 (D. Del. Aug. 3, 2017). *See also Med. Research Inst. v. Bio-*
3 *Engineered Supplements & Nutrition, Inc.*, C.A. No. 605-cv-417, 2007 WL 128937, at *7 (E.D.
4 Tex. Jan. 12, 2007) (“administer/administration” means “delivering the formulation-in-question
5 into a person’s body”); *Sanofi-Aventis U.S. LLC v. Fresenius Kabi USA, LLC*, C.A. No. 14-8079,
6 2016 WL 5898627, at *6-8 (D.N.J. Oct. 7, 2016) (“administering” means “delivering into the
7 body of a patient” and is distinct from a physician’s determination of the protocol for
8 administering the drug).

9 The cases that Amarin cites in its brief do not support its construction. In fact, in those
10 cases the courts rejected a broad reading of the term “administering,” such as the one Amarin
11 attempts to advance here. In *GlaxoSmithKline LLC v. Glenmark Pharms. Inc.*, GlaxoSmithKline,
12 the patent owner, argued that “administering” should be construed broadly to mean “prescribing,
13 dispensing, giving, or taking” without requiring actual delivery to the patient’s body. No. 14-cv-
14 877, 2016 WL 3186657, at *15 (D. Del. June 3, 2016). The claims of the patent in
15 *GlaxoSmithKline* were directed to “[a] method of decreasing mortality caused by congestive
16 heart failure.” *Id.* at *16. The court noted that “one cannot accomplish this goal for a patient if
17 the patient does not actually take the drugs at issue into her body.” *Id.* at *17. The court
18 construed the term to require “what is prescribed, dispensed, given or taken [to be] actually taken
19 into a patient’s body.” *Id.* Like in *GlaxoSmithKline*, in this case, a subject must, at a minimum,
20 actually take the medication in question into the body. In *Erfindergemeinschaft Uropep GbR v.*
21 *Eli Lilly and Co.*, the Court rejected Lilly’s proposal, identical to Amarin’s proposal here, that
22 the term “administering” needed no construction beyond its plain and ordinary meaning as
23 understood by a POSA. 2016 WL 7042234 (E.D. Tex. August 11, 2016). Further,
24

Erfindergemeinschaft is inapposite because the issue there was whether a pharmacist “administers” the medicine that the pharmacy dispenses. Nonetheless, the court’s construction in *Erfindergemeinschaft* fails to support Amarin’s broad interpretation. *Id.* at *3. The court warned that construing the term too broadly to include “‘giving,’ ‘providing,’ or ‘dispensing’ would lead one to conclude that a person is ‘administering’ a drug simply by conveying or providing the drug to another.” *Id.* The court concluded that “administering” requires “providing treatment” such that treatment is actually carried out “to ameliorate the issue.” *Id.* at *4. In this case, carrying out the treatment would not be possible without the actual delivery of the drug into the patients’ body. Additionally, neither of these cases had patents that included the express definition of administration requiring delivery of the medicament into the body found here in the patents-in-suit. (*See* Amarin’s Br. at Ex. 4, ’728 patent, 12:47-56.)

Finally, because Defendants’ construction of “administering” is clearly supported by the intrinsic record, no extrinsic evidence is necessary to support that “administering/administered” means “delivering/delivered into the body [or mouth].” *Intel Corp. v. VIA Techs., Inc.*, 319 F.3d 1357, 1367 (Fed. Cir. 2003) (citing *Vitronics*, 90 F.3d at 1584). Amarin’s reliance on extrinsic evidence that expands the definition of “administer” to include only prescribing or instruction without delivery into the body, however, again fails as it is contrary to an express definition for “administration” requiring delivery into the body as stated in the patent specification.

C. “Pharmaceutical composition”

Defendants’ Proposed Construction	Amarin’s Proposed Construction
drug dosage form for administration	a composition suitable for inclusion in a dosage form for administration to patients
Exemplary claim language (’728 patent, claim 1)	

1 1. A method of reducing triglycerides in a subject having a fasting baseline triglyceride
 2 level... comprising: administering orally to the subject about 4 g per day of a *pharmaceutical*
 3 *composition* comprising at least about 96%, by weight of all fatty acids present, ethyl
 eicosapentaenoate, and substantially no docosahexaenoic acid or its esters...

4 The term “pharmaceutical composition” must be construed as the drug dosage form that
 5 the subject takes for treatment and not, as Amarin proposes, simply the active ingredient to be
 6 included in the final dosage form. Amarin’s construction would improperly capture all drug
 7 dosage forms that include 4 g of the active ingredient regardless of the weight of the drug dosage
 8 form. But this is not what Amarin bargained for when it prosecuted its patents.

9 Defendants’ construction directly follows from the plain language of the claims which
 10 require “administering orally to the subject about 4 g per day of a pharmaceutical composition”
 11 to reduce or lower a subject’s triglyceride level. (Amarin’s Br. at Ex. 4, ’728 patent at 16:52-
 12 18:44.) A person of ordinary skill in the art would understand this language to pertain to the final
 13 drug dosage form, such as a capsule or a tablet, that contains the active ingredient, EPA-E
 14 because it is the final dosage form that is administered to the subject, not the active ingredient.

15 Ignoring this plain language, Amarin simply states, without support, that “[o]nly the
 16 weight of the active composition (EPA-E composition) not the surrounding capsule, is relevant
 17 to clinical practice.” (Amarin’s Br. at 19.) It is this statement, however, that is irrelevant. The
 18 plain words of the claim specify that the “pharmaceutical composition” is administered to the
 19 subject. The subject, into whose body the pharmaceutical composition is being delivered, does
 20 not swallow the active ingredient, rather, he or she swallows a finished dosage form like a
 21 capsule or tablet.

22 Defendants’ construction of “pharmaceutical composition” is also supported by the
 23 specification of the ’728 patent, which defines “dosage unit” and “dose unit” as a “portion of a
 24 pharmaceutical composition *that contains an amount of a therapeutic agent* suitable for a single

1 administration to provide a therapeutic effect.” (Amarin’s Br. at Ex. 4, ’728 patent at 12:57-62
 2 (emphasis added).) A POSA reading this statement in the specification would understand that
 3 “pharmaceutical composition” is different than a “therapeutic agent” (such as EPA-E).

4 The language of other claims is also consistent with Defendants’ understanding of
 5 “pharmaceutical composition.” Certain asserted claims specify that the “dosage units are
 6 capsules,” *i.e.*, a drug dosage form that is administered to the subject. (Amarin’s Br. at Ex. 14,
 7 ’929 patent, claim 9; Amarin’s Br. at Ex. 15, ’698 patent, claim 8; Amarin’s Br. at Ex. 16, ’372
 8 patent, claim 25; Amarin’s Br. at Ex. 17, ’594 patent, claims 9 and 26.)⁹ The specification also
 9 states that the pharmaceutical “composition . . . is packaged together with instructions for using
 10 the composition to treat a cardiovascular disorder.” (Amarin’s Br. at Ex. 4, ’728 patent at 13:20-
 11 22.) Similarly, the specification of the ’594 patent states that the “compositions of the invention
 12 are packaged in blister packs.” (Amarin’s Br. at Ex. 17, ’594 patent at 17:22-23.) Thus,
 13 according to the specification, a “pharmaceutical composition” is a drug dosage form, such as a
 14 capsule, that is packaged with instructions to patients or doctors on its use and that the patient
 15 administers for treatment.

16 The sole clinical study provided as an example in the specification also confirms
 17 Defendants’ construction of “pharmaceutical composition.” The specification states that the
 18 “primary objective of the study” was to “determine the efficacy of AMR101 2 g daily and 4 g
 19 daily, compared to placebo” in certain patient populations. (Amarin’s Br. at Ex. 4, ’728 patent at
 20 13:29-34.) In the clinical study, patients were administered 2 or 4 capsules containing EPA-E

21
 22 ⁹ This aligns with the plain meaning of a “dosage unit” in the art. For example, the U.S. Food
 23 and Drug Administration uses the term “dosage unit” for the final drug dosage form, such as a
 24 tablet, that is administered to a patient in a single administration. *See, e.g.*, 21 C.F.R. §§ 201.64,
 201.70, 201.71 (exemplifying a dosage unit by a tablet).

1 (AMR101), further supporting Defendants' position that the 2 g and 4 g contemplated by the
2 patentee is in the form of the final dosage form, in this case a "liquid-filled, oblong, gelatin
3 capsule." (*Id.* at 15:18-20.) Similarly, the sole pharmaceutical composition, referred to as the
4 "Test Composition," that is prepared and tested in the '594 patent is a capsule. (Amarin's Br. at
5 Ex. 17, '594 patent at 23:18-25:34.)

6 Finally, the prosecution history supports Defendants' construction. For example, during
7 prosecution of the '728 patent, the applicants argued that the claimed pharmaceutical
8 composition had unexpected results and met a long-felt, unmet need by comparing EPA-E
9 capsules with other drug dosage forms, such as Lovaza; the applicants did not compare the
10 fillings or active ingredients. (*See* Amarin's Br. at Ex. 19, '728 PFH, 6/27/12 Applicant
11 Response at AMRN00212317-28.)

12 Amarin argues that certain dependent claims in the patent which describe the
13 pharmaceutical composition as being "present in" the capsule differentiate the capsule from the
14 pharmaceutical composition. (Amarin's Br. at 19.) But in fact, these claims, when read in the
15 context of the independent claims and the specification, simply clarify that the pharmaceutical
16 composition can be in the form of a capsule. Other sections of the specification where the
17 pharmaceutical composition is described as "the composition that is present in the capsule shell,"
18 would be read by a person of skill as explaining that the composition with the capsule shell is
19 considered a pharmaceutical composition. At best, the sections of the specification that Amarin
20 points to support Defendants' construction, at worst they are inconsistent with the other uses of
21 "pharmaceutical composition" in the patent and the definition of "dosage unit" in the
22 specification. Amarin now cannot rely on its inconsistent usage of the claim term to get its
23
24

1 construction. *Trustees of Columbia Univ. in City of New York v. Symantec Corp.*, 811 F.3d 1359,
2 1366 (Fed. Cir. 2016).

3 As with the claim term “concurrent lipid altering therapy,” Amarin must live with the
4 language it chose to claim its alleged invention, rather than use claim construction as an
5 opportunity to rewrite its claims. If Amarin wanted to, it could have used the language it used in
6 several other asserted claims to define the amount of active ingredient being administered. (*See*,
7 *e.g.*, Amarin’s Br. at Ex. 15, ’698 patent, claim 1 (reciting “a pharmaceutical composition
8 comprising about 4 g of ethyl eicosapentaenoate and not more than about 4% docosahexaenoic
9 acid or its esters, by weight of all fatty acids”)¹⁰; Amarin’s Br. at Ex. 4, ’728 patent, claims 1, 8,
10 and 19 (“a pharmaceutical composition comprising at least about 96%, by weight of all fatty
11
12
13

14 ¹⁰ *See also* Amarin’s Br. at Ex. 9, ’446 patent, claim 1 (“administering . . . to the subject 4
15 capsules per day, each capsule comprising about 900 mg to about 1 g of ethyl eicosapentaenoate
16 and not more than about 3% docosahexaenoic acid or its esters, by weight of all fatty acids”);
17 Amarin’s Br. at Ex. 12, ’560 patent, claims 1 and 11 (“administering to the subject . . . a
18 pharmaceutical composition comprising about 4 g of ethyl eicosapentaenoate and not more than
19 about 3% docosahexaenoic acid or its esters, by weight of total fatty acids”); Amarin’s Br. at Ex.
20 14, ’929 patent, claim 1 (“administering to the subject . . . a pharmaceutical composition
21 comprising about 4 g of ethyl eicosapentaenoate and not more than about 4% docosahexaenoic
22 acid or its esters, by weight of all fatty acids”); Amarin’s Br. at Ex. 16, ’372 patent, claims 1 and
23 10 (“administering . . . to at least one subject . . . a pharmaceutical composition comprising about
24 4 g of ethyl eicosapentaenoate and not more than about 4% docosahexaenoic acid or its esters, by
weight of all fatty acids,” “administering . . . to at least one subject . . . four capsules per day,
each capsule comprising about 900 mg to about 1 g of ethyl eicosapentaenoate and not more than
about 4% docosahexaenoic acid or its esters, by weight of all fatty acids”); Amarin’s Br. at Ex.
17, ’594 patent, claims 1, 10, 17 (“administering . . . to at least one subject . . . about 2500 mg to
about 5000 mg of ethyl eicosapentaenoate, present in one or more capsules,” “administering . . .
to at least one subject . . . 4 capsules, each capsule comprising about 900 mg to about 1 g of ethyl
eicosapentaenoate,” and “administering . . . to at least one subject . . . about 4 g of fatty acids, at
least about 90% by weight of which are ethyl eicosapentaenoate”).

acids present, ethyl eicosapentaenoate”)¹¹.) But Amarin chose to use different language in its claim for “pharmaceutical composition” and is bound by it.

Finally, Amarin’s extrinsic evidence is irrelevant and should be given no weight. The extrinsic evidence cited by Amarin consists of the U.S. Pharmacopeia and the product list published by a company, Uni-Caps, LLC, that describes the active ingredients in terms of their weight. (Amarin’s Br. at 20.) But Amarin fails to explain the relevance these publications have on the claims of the patents at issue. Amarin used certain language to claim its alleged invention and now must be held to the natural construction of those terms.

D. The “Effect Steps”: “without effecting a . . .,” “to effect [a] . . .,” “effective to . . .,” “exhibits [a] . . .,” “effects [a] . . .”

Defendants’ Proposed Construction	Amarin’s Proposed Construction
Claim limitation and not merely a statement of intended result or effect.	Claim limitation encompassing the intentional purpose for which the method must be performed.
Plain and ordinary meaning	Plain and ordinary meaning applies.
Exemplary claim language (’728 patent, claim 1)	
1. A method of reducing triglycerides in a subject...comprising: administering orally to the subject about 4 g per day of a pharmaceutical composition...for a period of 12 weeks <i>to effect a</i> reduction in triglycerides without substantially increasing LDL-C compared to a second subject...	

Amarin drafted most of its claims to include functional limitations that recite the effects of administering EPA-E on the lipid levels of subjects receiving the drug. These functional limitations are prefaced by language such as “without effecting a . . .,” “to effect [a] . . .,” “effective to . . .,” “exhibits [a] . . .,” and “effects [a] . . .” (the “Effect Steps”).

¹¹ See also Amarin’s Br. at Ex. 6, ’677 patent, claim 1; Amarin’s Br. at Ex. 7, ’652 patent, claims 1 and 10; Amarin’s Br. at Ex. 8, ’920 patent, claim 1; Amarin’s Br. at Ex. 11, ’399 patent, claim 1; Amarin’s Br. at Ex. 13, ’650 patent, claims 1 and 8.

1 There is no dispute that the Effect Steps are material to patentability. Rather, Defendants
2 contend that the claimed lipid effects must actually be observed in the subject(s) receiving the
3 drug, whereas Amarin argues that it is sufficient that the physician prescribing the drug
4 subjectively intends that these effects be achieved. But, during prosecution, Amarin argued that
5 the Effect Steps were claim limitations and that conferring specific effects is the objective of the
6 invention. (Amarin's Br., Ex. 19, '728 PFH, 6/27/12 Applicant Response at AMRN00212315
7 ("Applicant respectfully requests that the requirement for a reduction or no increase in the
8 various lipid parameters be evaluated and accorded patentable weight.")) So while Amarin
9 argued that conferring the specific effect was a required limitation during prosecution to avoid
10 the prior art, it now seeks to avoid its burden of proof on infringement on that element by
11 arguing that "subjective intent" by a clinician would satisfy that requirement.

12 Amarin's argument is not supported by the intrinsic evidence. As a threshold matter,
13 Amarin's proposed construction would render most of the asserted claims patentably
14 indistinguishable from one another. If the Court were to adopt Amarin's proposed construction,
15 Amarin would escape having to prove these claim limitations for purposes of establishing
16 infringement. There is a strong presumption that dependent claims which include the Effect
17 Steps contain limitations that are not found in the independent claims. *See Phillips*, 415 F.3d at
18 1315. This presumption demolishes Amarin's argument that the Effect Steps are merely
19 expressions of intended use. Indeed, if this argument were adopted, then most of the asserted
20 claims would be patentably indistinguishable from one another. For example, claim 5 of the '728
21 patent depends from claim 1. The only additional limitation in claim 5 of the '728 patent is "to
22 effect a reduction in fasting non-HDL-C and a reduction in fasting VLDL-C compared to the
23 second subject." Similarly, the only additional limitation of claim 6 of the '728 patent is "to
24

1 effect a reduction in fasting triglycerides of at least about 25% compared to the second subject.”
2 The only additional limitation of claim 7 of the ’677 patent is “to effect a reduction in fasting
3 triglycerides of at least about 25% without substantially increasing LDL-C compared to placebo
4 control.” These exemplary claims would all be rendered redundant (and unpatentable under the
5 doctrine of same invention double patenting, (*see* 35 U.S.C. § 101; *see also, e.g., Miller v. Eagle*
6 *Mfg. Co.*, 151 U.S. 186, 197 (1894); *In re Vogel*, 422 F.2d 438, 441 (C.C.P.A. 1970)), if the
7 Effect Steps are not considered to require observation of the claimed effect by the person
8 practicing the method of treatment and are instead considered only to require the abstract intent
9 to confer the specific effects.

10 Additionally, the embodiments described in the specifications of the ’728 patent family
11 discuss various treatment outcomes of administering EPA and describe how to observe and
12 measure those outcomes. (Wharton Decl. ¶63; Amarin’s Br. at Ex. 4, ’728 patent at 8:3-25.) This
13 is most evident in the 12-week study to evaluate the safety and efficacy of AMR101, which
14 describes how the effects of administering EPA are to be measured, compared, and observed.
15 (Wharton Decl. ¶63; Amarin’s Br. at Ex. 4, ’728 patent at 13:25-14:50.)

16 Amarin’s argument that the Effect Steps require only that the clinician have the abstract
17 *intent* to confer the claimed effects is also not supported by the case law cited in its brief. *Vizio,*
18 *Inc. v. Int’l Trade Comm’n* dealt with construction of language in the claims’ *preamble*. And, the
19 court in that case found that the preamble term “for decoding” was “not merely a statement of
20 purpose or intended use for the invention” but rather “an essential limitation to the claims.” 605
21 F.3d 1330, 1340-41 (Fed. Cir. 2010). *Manning v. Paradis*, 296 F.3d 1098, 1102-04 (Fed. Cir.
22 2002) dealt with construction of the preamble method of “treating a subject in cardiac arrest” and
23 concluded that the claim term “require[d] a treatment that has a physiological effect on the
24

1 subject's heart . . ." *Id.* at 1104. In *Griffin v. Bertina*, the Federal Circuit rejected the argument
2 that the disputed "wherein" clause "merely state[s] the inherent result of performing the
3 manipulative steps." 285 F.3d 1029, 1033-34 (Fed. Cir. 2002). The Court found that "the
4 allegedly inherent properties of the 'wherein' clauses provide the necessary purpose to the steps
5 of obtaining test nucleic acid from a 'test subject' and 'assaying' that material." *Id.*

6 Amarin's argument that the Effect Steps require only that the clinician have the abstract
7 *intent* to confer the claimed effects, conflicts with the intrinsic evidence described above.

8 Finding the Effect Steps repeatedly recited throughout the specification and asserted claims, the
9 POSA would have considered them to require actual measurement and observation, for the
10 Effect Steps to be meaningful limitations. And Amarin implicitly admits in its Opening Brief that
11 the recited lipid effects must actually occur by stating that claims reciting no increase in LDL-C
12 would not be infringed if there is "any increase in LDL-C value." (Amarin's Br. at 32.)

13 Further, Amarin's construction is contradicted by the prosecution history of the patents
14 where the applicants unambiguously defined the effect steps as requiring observation of the
15 effect to distinguish the pending claims from the prior art. For example, during prosecution of
16 the '728 patent, the Examiner rejected all pending claims of the application in view of prior art.
17 (Amarin's Br. at Ex. 19, '728 PFH, 4/4/12 Non-Final Office Action at AMRN00212293-5,
18 AMRN00212297-9.) The Examiner explained that the "thereby to" and "wherein" clauses setting
19 forth the effects of administering the pharmaceutical composition merely expressed intended
20 results, and were not entitled to patentable weight. (*Id.*)

21 In reply, the applicants submitted a Response including an entire section entitled, "The
22 Claimed Lipid Parameters Should be Accorded Patentable Weight," disagreeing with the
23 Examiner and stating that, *inter alia*, the pending claims were amended to recite "effect" in order
24

1 to make the claims allowable. (Amarin's Br. at Ex. 19, '728 PFH, 6/27/12 Applicant Response at
2 AMRN00212311-12.) Specifically, the applicants stated:

3 Applicant has amended the claims, where appropriate, to remove reference to the
4 term "wherein" or "thereby" and to *positively recite* that the pharmaceutical
5 composition, when administered, *effects a reduction* in a particular lipid
parameter (e.g., triglycerides) or *does not effect an increase* in other lipid
parameters (e.g., LDL-C).

6 (*Id.* at AMRN00212311 (emphasis added); *see also* Ex. 10, '715 PFH, 6/27/12 Applicant
7 Response (AMRN00219137-52).)

8 As Amarin notes in its Opening Brief, [Amarin's Br. at 23], the applicants also relied on
9 *Astrazeneca AB. v. Dr. Reddy's Labs., Ltd.*, C.A. No. 05-5553 (JAP), 2010 WL 11414548
10 (D.N.J. May 17, 2010), in responding to the Examiner's rejection. The claim in *AstraZeneca*
11 included the phrase "so as to effect decreased interindividual variation in plasma levels (AUC)
12 during treatment of gastric acid related diseases." The plaintiff had proposed "so as to effect" to
13 mean "to bring about," while the defendant had argued that the limitation was "the observed
14 inherent result of the claimed method." (*See* Amarin's Br. at Ex. 19, '728 PFH, 6/27/12
15 Applicant Response at AMRN00212311 (citing *AstraZeneca*, 2010 WL 11414548, at *9-10).)

16 The court stated:

17 [I]n the instant case, the disputed claim terms express the invention of the claimed
18 compound at the high optical purity levels claimed. These are, for example, the
19 unexpected and improved effects of administration of the claimed compound on
individuals . . .

20 *AstraZeneca*, 2010 WL 11414548, at *10. The applicants endorsed the *AstraZeneca* decision,
21 explaining to the Examiner during prosecution of the patents-in-suit that the *AstraZeneca* "claim
22 language indeed *required the unexpected and improved effects* of administration of the claimed
23 compound and therefore was a claim limitation that required construction." (Amarin's Br. at Ex.
24 19, '728 PFH, at AMRN00212311-12 (citing *Astrazeneca*, 2010 WL 11414548, at *9) (emphasis

1 added).¹² So too here, the prosecution histories demonstrate that the applicants for the patents-
 2 in-suit intended for the lipid effects recited in the Effect Steps to be material to patentability.

3 The applicants also submitted multiple declarations during prosecution to establish the
 4 importance and unexpectedness of the Effect Steps. These declarations cited heavily to the
 5 results of the MARINE clinical trial, the sole embodiment supporting all the claims, specifically,
 6 showing observed and measured reduced triglyceride levels, reduced VLDL-C and total
 7 cholesterol, and reduced apoB levels. The Examiner allowed the patents relying on these
 8 clinically observed results. (Amarin's Br. at Ex. 19, '728 patent PFH, 9/6/12 Notice of
 9 Allowance at AMRN00212745-9.)¹³ In other words, the applicants' alleged evidence of the
 10 clinical effects of EPA-E (albeit, effects that were already known in the art) were found relevant
 11 to patentability in large part because the claims required observation of the Effect Steps.

12 In light of the intrinsic evidence described above, to show infringement, Amarin is
 13 obliged to prove that practitioners of the method *actually* measure and achieve the claimed
 14 effects, *e.g.*, reduce triglycerides without increasing LDL-C compared to a subject not receiving
 15 the pharmaceutical composition.

16
 17 ¹² Amarin relies on one sentence from the Court's *AstraZeneca* decision, which Amarin takes
 18 significantly out of context. The Court, was discussing prior case law in which "whereby" and
 19 "wherein" clauses were found to be claim limitations. *AstraZeneca*, 2010 WL 11414548, at *10-
 20 *11. Contrary to Amarin's suggestion, the applicants did not rely on this sentence in their
 21 arguments to the Examiner. And, as discussed above, the *AstraZeneca* Court found that the
 22 claims required observation of the unexpected and improved effects.

23 ¹³ (*See also* Ex. 10, '715 PFH, 6/26/12 Notice of Allowance (AMRN00219257-67); Ex. 11,
 24 '677 PFH, 11/8/12 Notice of Allowance (AMRN00225700-07); Ex. 12, '652 PFH, 11/9/12
 Notice of Allowance; Ex. 13, '920 PFH, 12/4/12 Notice of Allowance; Ex. 14, '446 PFH,
 12/18/12 Notice of Allowance; Ex. 15, '335 PFH, 1/3/13 Notice of Allowance; Ex. 16, '399
 PFH, 1/30/13 Notice of Allowance; Ex. 17, '560 PFH, 2/26/13 Notice of Allowance; Ex. 18,
 '650 PFH, 2/22/13 Notice of Allowance; Ex. 19, '929 PFH, 5/24/13 Notice of Allowance; Ex.
 20, '698 PFH, 5/24/13 Notice of Allowance; Ex. 21, '372 PFH, 7/7/13 Notice of Allowance; Ex.
 9, '594 PFH, 9/17/13 Notice of Allowance (AMRN00289707-17).)

E. “Compared to . . .”

Defendants’ Proposed Construction	Amarin’s Proposed Construction
Claim limitation and not merely a statement of intended result Plain and ordinary meaning	Plain and Ordinary Meaning
Exemplary claim language (’728 patent, claim 1)	
1. A method of reducing triglycerides in a subject...comprising: administering orally to the subject about 4 g per day of a pharmaceutical composition...for a period of 12 weeks to effect a reduction in triglycerides without substantially increasing LDL-C <i>compared to</i> a second subject having a fasting baseline triglyceride level...	

The plain and ordinary meaning of “compared to” requires the practitioner of the method to make a comparison between subjects or groups, such that the clinical effects may be observed and measured. Amarin argues, however, that construction is not necessary and that the plain and ordinary meaning of “compared to” means that the claimed effect can be compared to “the *expectation* if the subject did not receive purified ethyl-EPA, as described *in the specification, prosecution history, and available clinical trial results.*” (Amarin’s Br. at 26.) Amarin’s argument is nothing more than an attempt to read the “compared to” limitation out of the claims for purposes of establishing infringement. Under Amarin’s construction, a skilled artisan may simply prescribe the pharmaceutical composition to one subject, then compare the effect of that drug to an “intended lipid effect” or an “expectation” of what would have happened if that subject had not received the drug. Amarin’s reading of the claims is contrary to the plain language of the claims, the specifications, and statements Amarin made during the prosecution of its patents.

In a number of the asserted claims, the Effect Steps recite administering EPA-E to effect a reduction, or without effecting an increase, “compared to” the lipid parameters measured at baseline or in a placebo or control group. The concepts of reduction and increase have no

1 meaning if only one measurement is taken, or if no comparison is made. In order to observe, for
 2 example, the claimed reduction of triglycerides, or the accompanying absence of increased LDL-
 3 C, the practitioner of the method must perform a comparison to effects observed in another
 4 subject or population. If the essential comparison is not performed by the person practicing the
 5 method of treatment, then there is no infringement under *Limelight Networks, Inc. v. Akamai*
 6 *Techs., Inc.*, 134 S.Ct. 2111 (2014).

7 The specification discloses that the person practicing the method of treatment makes a
 8 comparison. The exemplary embodiment of the MARINE trial, as summarized in the Examples
 9 section of the specifications, discloses essential comparison steps to be performed by the
 10 practitioner while practicing the disclosed method.

11 A multi-center, placebo-controlled randomized, double-blind, 12-week study with
 12 an open-label extension is performed to evaluate the efficacy and safety of
 13 AMR101 in patients with fasting triglyceride levels ≥ 500 mg/dL. **The primary**
 14 **objective of the study is to determine the efficacy of AMR101 2 g daily and**
4 g daily, compared to placebo, in lowering fasting TG levels in patients with
 fasting TG levels ≥ 500 mg/dL and ≤ 1500 mg/dL (≥ 5.65 mmol/L and ≥ 16.94
 mmol/L).

15 * * *

16 The primary efficacy variable will be the percent change in fasting TG levels
 17 from baseline to Week 12. A sample size of 69 completed patients per treatment
 18 group will provide 90% power **to detect a difference of 30% between AMR101**
and placebo in percent change from baseline in fasting TG levels, assuming a
standard deviation of 45% in TG measurements and a significance level of
p<0.01. To accommodate a 15% drop-out rate from randomization to completion
 19 of the double-blind treatment period, a total of 240 randomized patients is planned
 (80 patients per treatment group).

20 (Amarin's Br. at Ex. 4, '728 patent at 13:26-34, 16:41-50 (emphasis added).) As disclosed in this
 21 specification, the primary objective of the exemplary method is to compare the efficacy of EPA-
 22 E with a placebo. (Wharton Decl. ¶63; Amarin's Br. at Ex. 4, '728 patent at 13:29-34.) The
 23 practitioner accomplishes this objective by considering at least four measured values—*i.e.*, the
 24

lipid parameters of at least one subject who is administered AMR101 both before and after a treatment period, and the lipid parameters of a control subject both before and after the treatment period. (Amarin's Br. at Ex. 4, '728 patent at 15:34-36; Wharton Decl. ¶63.) As discussed above, the claims reciting that administration of EPA effects a change in lipid parameters are enabled by this exemplary method, and were drafted to capture it.

F. The "LDL-C Terms"

Terms ¹⁴	Defendants' Proposed Construction	Amarin's Proposed Construction
without substantially increasing LDL-C	Terms are indefinite under 35 U.S.C. § 112.	without a clinically meaningful increase in LDL-C
without effecting a statistically significant increase in LDL-C		without bringing about a rise in LDL-C attributable to the treatment rather than to chance
substantially no increase or a reduction in fasting LDL-C		without a clinically meaningful increase in LDL-C
substantially no increase in LDL-C		without a clinically meaningful increase in LDL-C
Exemplary claim language ('728 patent, claim 1)		

¹⁴ Defendants agree with Amarin's construction of the following terms: "without increasing LDL-C" and "without an increase..." As Amarin states in its brief, where the term is followed by a numerical value, for example, "without increasing LDL-C by more than 5% in the subject," (Amarin's Br. at Ex. 12, '560 patent, claim 4), the term means "the increase is no more than 5%." (Amarin's Br. at 32.) Where there is no numerical value after the term, the term means "without any increase in LDL-C levels in the subject" (*Id.*)

1. A method of reducing triglycerides in a subject...comprising: administering orally to the subject about 4 g per day of a pharmaceutical composition...for a period of 12 weeks to effect a reduction in triglycerides *without substantially increasing LDL-C* compared to a second subject having a fasting baseline triglyceride level...

1. “without substantially increasing LDL-C,” “substantially no increase in LDL-C,” and “substantially no increase or a reduction in fasting LDL-C”

When read in the context of the entire claim and the intrinsic evidence, the LDL-C terms, “without substantially increasing LDL-C,” “substantially no increase in LDL-C,” and “substantially no increase or a reduction in fasting LDL-C,” are indefinite. The LDL-C terms fail to inform those of skill in the art, with reasonable certainty, what degree of LDL-C increase in a subject constitutes a “substantial” increase. The specification provides no guidance as to what rises to the level of “substantially.” Amarin proposes that “substantially” means “clinically meaningful,” but “clinically meaningful” is a subjective judgment that may vary greatly from clinician to clinician and from subject to subject. (Wharton Decl. ¶73.)

The purpose of the definiteness requirement is to afford the public clear notice of what is claimed and distinguish the claimed invention from the prior art. *Nautilus*, 134 S.Ct. 2120. Recognizing that “patent applicants face powerful incentives to inject ambiguity into their claims,” the Court in *Nautilus* explained that the definiteness requirement lets the public know what “is still open to them.” *Id.* at 2123, 2129. Whereas here, a term of degree is used in a claim, “the court must determine whether the patent provides some standard for measuring that degree.” *Biosig Instruments, Inc. v. Nautilus, Inc.*, 783 F.3d 1374, 1378 (Fed. Cir. 2015) (quotation marks omitted); *see also Datamize, LLC v. Plumtree Software, Inc.*, 417 F.3d 1342, 1351 (Fed. Cir. 2005) (holding that when a subjective term is used in a claim, “a court must determine whether the patent’s specification supplies some standard for measuring the scope of the [term].”). Simply put, “the claims, when read in light of the specification and the prosecution history, must

1 provide objective boundaries for those of skill in the art.” *Interval Licensing LLC v. AOL, Inc.*,
2 766 F.3d 1364, 1371 (Fed. Cir. 2014). To determine the proper scope of a claim, a person of skill
3 in the art must know what falls inside the scope of the claim as well as what falls outside of it.
4 *Meds. Co. v. Mylan, Inc.*, 853 F.3d 1296, 1303 (Fed. Cir. 2017) (citing *Morton Int’l, Inc. v.*
5 *Cardinal Chem. Co.*, 5 F.3d 1464, 1470 (Fed. Cir. 1993) (“[C]laims . . . [must be] sufficiently
6 precise to permit a potential competitor to determine whether or not he is infringing.”)).

7 The claims with the LDL-C terms, in their simplest form, claim a method of
8 administering a pharmaceutical composition that causes a reduction in triglycerides but without a
9 “substantial increase” in LDL-C. (*See* Amarin’s Br. at Ex. 4, ’728 patent, claim 1; Wharton Decl.
10 ¶¶66.) If the subject concurrently receives another lipid-altering therapy, the method of treatment
11 falls outside the claims. (*See* Amarin’s Br. at Ex. 4, ’728 patent, claim 1; Wharton Decl. ¶¶66.)
12 But neither the claims nor the specifications of the patents describes the level of increase in
13 LDL-C that would rise to the level of a “substantial increase.” (Wharton Decl. ¶¶67.) There is no
14 clear, objective standard or boundary in the claims or specification defining the degree of LDL-C
15 increase that constitutes a “substantial increase” such that the treatment would fall outside the
16 scope of the claims. (*Id.*) In fact, neither the specification nor the prosecution history provide any
17 guidance or standard of measure for what constitutes a “substantial increase.” (*Id.*)

18 In Amarin’s case, the LDL-C terms do not inform a POSA with reasonable certainty what
19 the scope of Amarin’s invention is because (1) the specification fails to define the level of LDL-
20 C increase that constitutes a “substantial increase,” (2) the prosecution history fails to present
21 proof of delineating the level of LDL-C increase that constitutes a “substantial increase,” and (3)
22 Amarin’s construction fails to salvage the lack of any intrinsic evidence. Amarin’s attempts to
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1 broaden the definition of “substantial” introduce more ambiguity and uncertainty into the
2 meaning of the claim terms and their limits and boundaries.

3 For a skilled artisan, the only embodiment in the specification describing an outcome of
4 increased LDL-C levels provides no clarity to the subjective claim language. (Wharton Decl.
5 ¶¶68-73.) The specification for that embodiment describes a wide range of increases from “less
6 than 60% increase” to “no increase in LDL-C levels” at all. (Amarin’s Br. at Ex. 4, ’728 patent at
7 5:37-40; Wharton Decl. ¶68.) But such an extreme variation in the percentage increase of LDL-C
8 essentially renders a skilled artisan’s understanding of “substantial” meaningless. (Wharton Decl.
9 ¶68; *see also Geodynamics, Inc. v. Dynaenergetics U.S., Inc.*, No. 15-CV-1546, 2016 WL
10 6217181, at *15-16 (E.D. Tex. Oct. 25, 2016) (rejecting as ambiguous and uncertain the
11 argument that “substantially equal” includes values that are within 35% of equality).) For a
12 clinician, depending on the patient, the treatment of an individual with high triglycerides that
13 results in a 60% increase in the patient’s LDL-C level might have very different treatment
14 implications compared to a patient with a 5% increase in LDL-C level since clinicians treat each
15 patient differently. (Wharton Decl. ¶68.) Depending on the particular clinician and the particular
16 patient, certain rises in LDL-C levels may lead to treatment with additional lipid-lowering drugs
17 or the use of an LDL-C lowering drug, rendering the method of treatment of the patents outside
18 the claims of the patent. (*Id.* ¶70.) While one clinician may see a 30% increase in LDL-C level
19 for a particular patient as a cause for prescribing a concurrent lipid-altering therapy, a different
20 clinician may require a higher change in LDL-C level before doing so for the same patient. (*Id.*)
21 Each clinician has different standards for treatment for each patient depending on a patient’s
22 family history, lifestyle, age, and other factors. (*Id.*) Thus, to a skilled artisan, the specification’s
23 broad range of possible increases in LDL-C provides no meaningful guidance; it only serves to
24

1 add ambiguity and uncertainty to the understanding of the claims. *Interval Licensing*, 766 F.3d
2 1364, 1371 (finding the term “unobtrusive manner” indefinite because the specification and
3 prosecution history failed to provide meaningful guidance to a POSA); Wharton Decl. ¶¶68-73.

4 There is no other section of the specification that provides an objective boundary to the
5 LDL-C terms. The sole clinical study described in the specification describes a percent change in
6 LDL particle number and size as a secondary efficacy variable of the clinical study, but does not
7 provide any information on the percent change. (Amarin’s Br. at Ex. 4, ’728 patent at 15:34-53;
8 Wharton Decl. ¶68.) Thus, there is no intrinsic evidence that would allow a POSA to determine
9 the boundaries for the change in a subject’s LDL-C values that would render the change
10 “substantial” such that the method of treatment would fall outside the scope of the claims.

11 Next, the lack of boundary or limit to the LDL-C terms is particularly significant given
12 that Amarin used the LDL-C terms during prosecution to distinguish the subject matter of the
13 invention from the prior art. *Nautilus*, 134 S.Ct. at 2129 n.6 (the definiteness requirement is met
14 when the claims “clearly distinguish what is claimed from what went before in the art”). As
15 Amarin admits, the applicants submitted several declarations during prosecution to argue that,
16 prior to the claimed invention, medications used to lower TG levels often increased LDL-C
17 levels. (Amarin’s Br. at Ex. 19, ’728 PFH, 6/27/12 Applicant Response at AMRN00212327.)
18 But in every declaration, the applicants failed to provide any guidance as to how much the level
19 of LDL-C in the prior art compositions increased and simply described the increase as
20 “substantial,” without further explanation. (*Id.*) Because the applicants used the lack of increase
21 in LDL-C as a factor in distinguishing the invention from the prior art, it stands to reason that a
22 POSA should be able to determine whether a composition raises LDL-C sufficiently enough to
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1 remove it from the scope of the invention. *Meds. Co.*, 853 F.3d at 1303. But the claims and
2 specification do not provide any clarity on the issue.

3 Amarin’s citations to the prosecution history of the patents do not provide any bounds for
4 the LDL-C terms either. Amarin cites to the declarations of the different clinicians it used during
5 prosecution to distinguish the prior art. (Amarin’s Br. at 27.) But as explained above, each
6 description of the LDL-C effect on both the prior art and the composition used in the method of
7 the invention fails to describe or outline any set of parameters or boundaries. For example, Dr.
8 Bays explained that the prior art medications increased LDL-C levels and did so “sometimes
9 substantially.” (Amarin’s Br. at Ex. 19, ’728 PFH, 6/26/12 Bays Decl. at AMRN00212357.) Dr.
10 Bays goes on to explain that such an increase was of “clinical consequence,” but gives no further
11 explanation as to what degree of increase caused the clinical consequence. (*Id.*)

12 Amarin’s attempt to define the “substantially” terms only doom the terms to greater
13 confusion. (Wharton Decl. ¶73.) Amarin itself does not contend that the bounds of the LDL-C
14 terms can be found in the specification or other intrinsic evidence. (*Id.*) Instead, Amarin proposes
15 a construction that simply substitutes “substantially” with “clinically meaningful,” a construction
16 that injects even further ambiguity and uncertainty into the meaning of the claim term. (*Id.*)
17 Amarin’s explanation is that a “clinically meaningful” increase in LDL-C is an increase that
18 would require clinical judgment. (*Id.*) Thus, under Amarin’s construction, the bounds of the
19 LDL-C terms is within the subjective judgment and range of each individual clinician and would
20 differ among patients. (*Id.*) One seeking to avoid the patent would have no guidance with which
21 to determine whether a prior art composition would raise the LDL-C level in a subject
22 sufficiently enough to remove it from the scope of the invention. Amarin’s construction is
23 contrary to established law which states that “a term of degree fails to provide sufficient notice of
24

1 its scope if it depends ‘on the unpredictable vagaries of one person’s opinion.’” *Interval*
2 *Licensing*, 766 F.3d at 1371 (internal citations omitted).

3 Amarin’s words, without a quantitative objective standard, cannot save the LDL-C terms
4 from rendering the claims indefinite. “Even if a claim term’s definition can be reduced to words,
5 the claim is still indefinite if a person of ordinary skill in the art cannot translate the definition
6 into a meaningfully precise claim scope.” *Halliburton Energy Servs., Inc. v. M-I LLC*, 514 F.3d
7 1244, 1251 (Fed. Cir. 2008). In *Halliburton*, the patent owner offered functional construction
8 language to define the term “fragile gel.” However, the court rejected the construction because
9 the specification failed to provide any quantitative examples to know the boundaries of what was
10 or was not “fragile.”

11 It is clear that Amarin does not want to limit itself to any limitations to the range of
12 change of LDL-C levels that might be considered a “substantial” increase. *See Nautilus*, 134
13 S.Ct. at 2129 (prohibiting such unchecked constructions because “absent a meaningful
14 definiteness check . . . patent applicants face powerful incentives to inject ambiguity into their
15 claims”). Amarin’s remaining citations to the prosecution history point to statements made by
16 declarants declaring an “extreme 49% increase in LDL-C level” seen in patients treated with
17 Lovaza as being of clinical significance. But, says Amarin, even a smaller 6% increase in the
18 LDL-C level could have clinical significance such that a clinician might consider modifying a
19 patient’s treatment regimen. But, Amarin does not conclude that those levels provide the bounds
20 for the LDL-C terms, instead it argues a construction that leaves the term as ambiguous as
21 possible to inappropriately broaden the scope and capture as many products as possible into the
22 scope of the patents.

1 The cases cited by Amarin are inapplicable and do not support its argument. (Amarin's
2 Br. at 30.) First, both *Deere & Co. v. Bush Hog, LLC*, 703 F.3d 1349 (Fed. Cir. 2012), and
3 *Verve, LLC v. Crane Cams, Inc.*, 311 F.3d 1116 (Fed. Cir. 2002), were decided under a standard
4 for indefiniteness that has been subsequently overruled by the Supreme Court. In *Deere*, the
5 Court found the term "substantially planar" was not "insolubly ambiguous" and was therefore
6 not indefinite. But, in 2014, in *Nautilus, Inc. v. Biosig Instruments, Inc.*, the Supreme Court
7 found the Federal Circuit's "insolubly ambiguous" standard did not satisfy the statutory
8 definiteness requirement and could leave courts and the patent bar "at sea without a reliable
9 compass." 134 S.Ct at 2130.

10 Further, the *Verve* case, actually supports Defendants argument. In *Verve*, the Court
11 found that words such as "substantially" can be used "when warranted by the nature of the
12 invention, in order to accommodate the minor variations that may be appropriate to secure the
13 invention." 311 F.3d at 1120. The Court explained that such words may serve to describe the
14 invention "with *precision appropriate to the technology* and without intruding on the prior art."
15 (*Id.* (emphasis added).) On both counts, *Verve* counsels in favor of finding the LDL-C terms
16 indefinite. Here, the wide range in LDL-C levels that Amarin suggest may be "substantial" is at
17 odds with the technology of the patent: the treatment of subjects with high triglyceride levels. No
18 person of skill in the art would consider the range of percentage changes of LDL-C between 60%
19 and 6% to be in any way precise. (Wharton Decl. ¶68.) In fact, as Dr. Wharton testifies, such a
20 range of change in LDL-C levels could have a major impact on the health of a patient and would
21 require a significant modification of a patient's treatment. (*Id.*) Further, depending on the change
22 in LDL-C percentage, the composition of the invention could be part of the prior art. As
23 described by Amarin's declarant, Dr. Bays, Lovaza was known to increase LDL-C levels in
24

1 patients by 49%, a level he considered “extreme.” (Amarin’s Br. at Ex. 19, ’728 PFH, 6/27/12
2 Applicant Response at AMRN00212327.) Yet, under Amarin’s construction, and the
3 specification of the patent, it remains uncertain as to whether that percentage change is
4 “substantial.”

5 And in *One-E-Way*, the court found the term “virtually free from interference” to mean
6 “the ability to listen without eavesdropping such that a user is not able to listen to another user’s
7 transmissions in the wireless digital audio system spectrum.” *One-E-Way, Inc. v. Inter’l Trade*
8 *Comm’n*, 859 F.3d 1059, 1066 (Fed. Cir. 2017). Such clarity with the proposed claim term is not
9 possible here. Reading the claims and under Amarin’s construction, a POSA could not, with
10 reasonable certainty, determine unambiguously the limits and boundaries of what constitutes a
11 percentage increase of LDL-C that is a “substantial” increase.

12 The LDL-C terms do not inform a POSA with reasonable certainty what the scope of
13 Amarin’s invention is. In other words, the LDL-C terms inject uncertainty and ambiguity into the
14 claims and fail such that a POSA could not determine whether or not treatment of a subject by a
15 particular pharmaceutical composition fell within the scope of the invention or whether the
16 method of treatment was already known in the prior art.

17 **2. “without effecting a statistically significant increase in LDL-C”**

18 The LDL-C term “without effecting a statistically significant increase in LDL-C” is
19 indefinite for the same reason that the above LDL-C terms are indefinite—it does not inform a
20 skilled artisan with reasonable certainty when an increase in LDL-C rises to the level of
21 “statistical significance.”

22 As with the other LDL-C terms, Amarin’s proposed construction injects further
23 uncertainty to a POSA’s understanding of this claim term. Amarin’s citations to the prosecution
24

history do not help; they only serve to show that Amarin argued to the Patent Office that the clinical trials for its EPA-E product show no statistically significant changes in LDL-C compared to the prior art product, but Amarin does not explain what the limits and boundaries of the “statistical significance” are.

As Dr. Wharton explains, there can be no statistically significant value for one individual, that term is only used in the context of a group or population of subjects, usually when describing the outcomes of clinical studies. (Wharton Decl. ¶72.) Claims 13 and 14 of the ’715 patent, the only claims asserted that contain this claim term, are directed towards a method of treating a subject. Therefore for a POSA, to measure a statistically significant value with respect to one subject, would be impossible. (*Id.*) And even in clinical trials, statistical significance depends on the size of the group and other factors and without more information, a POSA could not determine a statistically significant value with respect to a subject group. (*Id.*)

G. The “Placebo Terms”: “placebo control” and “compared to placebo control”

Terms	Defendants’ Proposed Construction	Amarin’s Proposed Construction
placebo control	a subject who is administered a placebo and not concurrently administered a pharmaceutical composition comprising ethyl eicosapentanoate	See “compared to placebo control.”
compared to placebo control	compared to a subject who is administered a placebo and not concurrently administered a pharmaceutical composition comprising ethyl eicosapentanoate	compared to not administering treatment
Exemplary claim language (’560 patent, claim 11)		

1 11. A method of reducing triglycerides in a subject having a fasting baseline triglyceride
2 level of...comprising, administering orally to the subject... for a period of 12 weeks to effect a
3 reduction in triglycerides in the subject compared to *placebo control*.

4 Amarin seeks to improperly broaden the scope of the terms “placebo control” and
5 “compared to placebo control” by ignoring the word “placebo.” Amarin’s construction of
6 “placebo control” would include not only those subjects who are administered a placebo, but also
7 those subjects who are administered nothing at all.¹⁵ Put another way, if the Court were to grant
8 its construction, Amarin would not need to prove that a skilled artisan actually compares two
9 quantified, measured effects (*i.e.*, a placebo versus the active ingredient).

10 Defendants’ proposed construction explains how a POSA would understand the term
11 “placebo control” in the context of the asserted patents. (Wharton Decl. ¶¶74-78; *see also*
12 *Hockerson-Halberstadt, Inc. v. Converse Inc.*, 183 F.3d 1369, 1374 (Fed. Cir. 1999) (“Proper
13 claim construction . . . demands interpretation of the entire claim in context, not a single element
14 in isolation.”).) The claims of the patents-in-suit are directed towards methods embodying a
15 clinical trial. (Wharton Decl. ¶76.) In a clinical trial context, a POSA understands that a “placebo
16 control” is a subject who is administered a placebo and not concurrently administered the studied
17 treatment. (*Id.* ¶75.) Dr. Miller agrees that “[p]lacebo control is a well-understood term in
18 clinical research and evidence-based medicine.” (Miller Decl. ¶98; Wharton Decl. ¶76.) Dr.
19 Wharton explains that a POSA would understand that the term “placebo control” requires that a
20 subject receive a pill containing an inactive substance to serve as a standard, a critical element of
21 clinical studies. (Wharton Decl. ¶¶75-76.)

22
23 ¹⁵ The evidence that supports Defendants’ construction of the term “placebo control” also
24 applies to the term “compared to placebo control.”

The only description of a placebo in the patents-in-suit is in the context of the MARINE trial where one treatment arm received a matching placebo capsule. (*Id.* ¶¶77-78.) The MARINE trial requires that a subject be administered a placebo and not concurrently be administered a pharmaceutical composition comprising EPA-E:

A multi-center, **placebo-controlled randomized, double-blind, 12-week study** with an open-label extension is performed to evaluate the efficacy and safety of AMR101 in patients with fasting triglyceride levels ≥ 500 mg/dL. **The primary objective of the study is to determine the efficacy of AMR101 2 g daily and 4 g daily, compared to placebo**, in lowering fasting TG levels in patients with fasting TG levels ≥ 500 mg/dL and 1500 mg/dL (≥ 5.65 mmol/L and ≤ 16.94 mmol/L).

* * *

After confirmation of qualifying fasting TG values, eligible patients will enter a 12-week, randomized, double-blind treatment period. At Visit 4 (Week 0), **patients will be randomly assigned to 1 of the following treatment groups:** AMR101 2 g daily, AMR101 4 g daily, or **Placebo.**

(Amarin's Br. at Ex. 6, '677 patent at 13:31-39, 14:64-15:3, 15:17-32 (emphasis added).)

The specification then describes the placebo that will be administered to a subject:

* * *

Eligible patients will be **randomly assigned at Visit 4 (Week 0) to receive orally AMR101 2 g daily, AMR101 4 g daily, or placebo for the 12-week double-blind treatment period.** AMR101 is provided in 1 g liquid-filled, oblong, gelatin capsules. **The matching placebo capsule is filled with light liquid paraffin and contains 0 g of AMR101.** During the double-blind treatment period, **patients will take 2 capsules (AMR101 or matching placebo) in the morning and 2 in the evening for a total of 4 capsules per day.** Patients in the AMR101 2 g/day treatment group will receive 1 AMR101 1 g capsule and 1 matching placebo capsule in the morning and in the evening. Patients in the AMR101 4 g/day treatment group will receive 2 AMR101 1 g capsules in the morning and evening.

Patients in the placebo group will receive 2 matching placebo capsules in the morning and evening.

(Amarin's Br. at Ex. 6, '677 patent at 13:31-39, 14:64-15:3, 15:17-32 (emphasis added).) The specification unambiguously discusses how the "placebo control" group takes paraffin-filled capsules containing "0 g of AMR101." (Wharton Decl. ¶¶75-76.) Even Amarin acknowledges that this Example requires a comparison to subjects who take a placebo capsule. ("The example in the specification describes a study where the claimed purified EPA-E composition was *compared against a placebo.*" (Amarin's Br. at 25 (emphasis added))).)

Yet, Amarin conflates the term "placebo control" with a "control," arguing a POSA would certainly "understand the term 'placebo control' in the claims to be the counterpart to the individual being treated." (Amarin's Br. at 34-35.) But this is incorrect; a "control" is broader in that it describes something that remains the same in an experiment. It could encompass both a subject who is not administered any treatment and a subject who is administered a "sugar pill" (or a paraffin-filled capsule in the MARINE trial Example). (Wharton Decl. ¶¶76-77.)

In fact, Amarin's proposed construction for "placebo control" defeats the design of a double-blind study, such as the MARINE trial. The purpose of a double-blind study is to eliminate observer bias because neither doctors nor subjects know who is receiving the studied therapy. (*Id.* ¶78.) Doctors must administer something that resembles the therapy being tested, *i.e.*, a placebo. (*Id.* ¶76.) Otherwise, both the doctors and the subjects would be aware of who is and who is not receiving treatment. (*Id.* ¶¶76, 78.) In the "placebo-controlled randomized, double-blind" study of the Example, there is no doubt that the placebo group receives a "placebo" in the form of a capsule "filled with light liquid paraffin." (*Id.*) Thus, a POSA would understand "placebo control" to require that a subject be administered a placebo. (*Id.* ¶78.)

Moreover, during prosecution of the patents-in-suit, the applicants submitted multiple prior art references that discuss placebo-controlled studies, where the use of the term "placebo

control” is consistent with Defendants’ proposed construction. (Ex. 11, ’677 PFH, 10/1/12 Information Disclosure Statement (AMRN00223661-92).)

Amarin offers no support for reading out the term “placebo” from “placebo control” other than the opinion of Dr. Miller, who does not offer any support for his position. (Amarin’s Br. at 34-35.) The applicants could have, but did not, use the term “control” instead of “placebo control.” Amarin’s true intention for its proposed construction is thus to negate the claim language that requires a comparison to placebo control for purposes of establishing infringement.

H. “Identifying a group of subjects”

Defendants’ Proposed Construction	Amarin’s Proposed Construction
identifying a group of two or more subjects	identifying a class of individuals
Exemplary claim language (’372 patent, claim 1)	
1. A method of reducing triglycerides comprising, <i>identifying a group of subjects</i> having a median triglyceride level of at least 500 mg/dl . . .	

Amarin does not contest that the “identifying” step in the asserted claims is a material claim limitation. Amarin again, however, attempts to avoid proving infringement on a claim limitation, by proposing a construction that substitutes the requirement that two or more people be identified with the requirement that a hypothetical class of people with similar characteristics, (such as a class of people with severely elevated TG) be identified. (*See* Amarin’s Br. at 36.) Amarin does this by changing the language of the claim from its plain and ordinary meaning to something different, changing the words “group” and “subjects” to “class” and “individuals,” respectively. (Wharton Decl. ¶80.) Defendants, on the other hand, simply clarify that the claim word “subjects” is plural—“two or more subjects.”

Amarin’s proposed construction is wrong because the meaning of “group of subjects” is clear from the intrinsic evidence and the applicants did not act as their own lexicographers to

1 redefine it to mean a “class of individuals.” In the description of the clinical study protocol in the
 2 patents-in-suit, the specification uses the words “subjects” or “patients” several times and not
 3 “individuals.” (*Id.* ¶¶85-87.) In addition, there are no references to a “class” in these excerpts or
 4 anywhere else in the specification. (*Id.* ¶82.) Without that clear expression of intent to depart
 5 from the plain and ordinary meaning of a word, Amarin cannot show that the applicants acted as
 6 their own lexicographers to define “group” to mean “class.” *See Thorner*, 669 F.3d at 1365.

7 Amarin’s proposed construction is also wrong because construing “subjects” to mean
 8 “individuals” is contrary to how a person of ordinary skill in the art would understand the term
 9 “subjects.” (Wharton Decl. ¶83.) “Subjects” to a POSA, in the context of the patents-in-suit,
 10 means people who are participating in an efficacy clinical study, like the clinical study described
 11 in the patent specification, that are suffering from a diseased state—such as patients. (*Id.*)
 12 “Individuals” on the other hand, is any person—not necessarily someone in a diseased state. (*Id.*)

13 A POSA would have plainly understood that “identifying a group of subjects” means
 14 requiring the identification of more than one subject based on the use of the term “group” and the
 15 use of the plural form of the word “subject.” (*Id.* ¶84.) A POSA would have also understood that
 16 the “identifying” step is to be performed by the person practicing the claimed method. (*Id.*)

17 I. “Patient population”

Defendants’ Proposed Construction	Amarin’s Proposed Construction
group of two or more patients	a class of subjects
Exemplary claim language (‘728 patent, claim 19)	
19. A method of lowering triglycerides...comprising: administering orally to the subject about 4 g per day of a pharmaceutical composition...that is effective to reduce in a first <i>patient</i> <i>population</i> receiving 4 g per day of said composition without concurrent lipid altering therapy...	

1 The proper construction of the phrase as would be understood by a POSA based on the
2 plain and ordinary meaning is “a group of two or more patients.” (Wharton Decl. ¶89.) A POSA
3 would have understood that “population,” in the context of the patent specification, is being used
4 synonymously with “group,” as it would be in normal parlance. (*Id.*) There is no reason to depart
5 from this plain and ordinary meaning to introduce the concept of a “class of subjects” as Amarin
6 improperly proposes. As with the terms above, Amarin’s construction seeks to obviate an action
7 that the claims require. Here, the claims require that a skilled artisan compare the actual and
8 measured effects of the pharmaceutical composition to an actual group of patients. Under
9 Amarin’s construction, the skilled artisan would simply need to understand the effects that the
10 pharmaceutical composition was known to have in a particular set of patients, for example,
11 patients with high triglycerides.

12 The intrinsic evidence also does not support Amarin’s construction. As explained above,
13 the specification never once uses the word “class” whether referring to patients or subjects. (*Id.*
14 ¶90.) With respect to “patients,” the specification and file history talk specifically about *groups*
15 of patients: “patients will be randomly assigned to 1 of the following treatment groups,” (*Id.*;
16 Amarin’s Br. at Ex. 4, ’728 patent at 14:61-67; *see also* 15:15-33, 16:38-50), and “patients are
17 classified into three different groups,” (Wharton Decl. ¶90; Amarin’s Br. at Ex. 19, ’728 PFH,
18 9/6/12 Notice of Allowance at AMRN00212744.)

19 **VI. CONCLUSION**

20 For the foregoing reasons, Defendants respectfully request that the Court adopt their
21 proposed claim constructions.
22
23
24

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Respectfully submitted,

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I HEREBY CERTIFY that I electronically transmitted a true and correct copy of the foregoing **DEFENDANTS' RESPONSIVE CLAIM CONSTRUCTION BRIEF** to the following counsel of record for Plaintiffs in this matter through the Court's CM/ECF e filing program:

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